

### **Lagging Specification**

The acoustical lagging shall consist of 2-in., 4-in., or 6-in. thick mineral fiber placed against the pipe wall plus an external jacket incorporating steel, aluminum and/or loaded vinyl to achieve a 1.25 pound per square foot surface weight. If loaded vinyl is used, it shall be sheathed with an exterior metal jacket. Thermal insulation such as calcium silicate or closed-cell synthetic foams shall not be acceptable substitutes for the cavity fill.

All circumferential joints of the insulation should be staggered and sealed with a non-hardening adhesive. Longitudinal seams and adjoining sections are to be firmly butted together and sealed. All gaps and voids are to be packed with loose insulation. Field cut the acoustic insulation to snugly fit around irregular shapes, elbows, flanges and valves. Jacket seams shall overlap by no less than 2 inches; stainless steel banding shall be applied on 9-10 inch centers (use of screws and rivets alone is not recommended).

Insertion Loss performance of the lagging system shall be no less than given below in Table when measured in accordance with ASTM E1222 "The Laboratory Measurement of the Insertion Loss of Pipe Lagging Systems" or by a field test method acceptable to the purchaser.

**Table 1: Insertion Loss Performance of Lagging Systems**

	31.5	63	125	250	500	1000	2000	4000	8000
2 in.	1	3	4	6	12	22	23	21	20
4 in.	2	4	5	10	15	27	30	24	20
6 in.	4	7	10	15	25	30	30	22	20